

# Memorandum

Date: March 7, 2008  
Telephone: (916) 654-4996

To: Jackalyne Pfannenstiel, Chairman  
James D. Boyd, Vice Chair  
Arthur H. Rosenfeld, Ph.D., Commissioner  
Jeffrey Byron, Commissioner  
Karen Douglas, Commissioner

From: California Energy Commission – Melissa Jones  
1516 Ninth Street  
Sacramento, CA 95814-5512  
Executive Director



<b>DOCKET</b>	
07-AFC-9	
DATE	MAR 07 2008
RECD.	MAR 07 2008

Subject: **REVISED DATA ADEQUACY RECOMMENDATION FOR CANYON POWER PLANT PROJECT (07-AFC-9)**

On December 28, 2007, Southern California Public Power Authority submitted an Application for Certification (AFC) to construct and operate a nominal 200-megawatt natural gas-fired simple cycle generating facility, the Canyon Power Plant (Canyon), in an industrial area of the city of Anaheim in northern Orange County. The Commission found the AFC to be incomplete at the February 13, 2008 Business Meeting as it did not contain all of the information required by California Code of Regulations, Title 20, Section 1704, including Appendix B, for the 12-month process. Specifically, the AFC was deficient in twelve of the 23 areas: air quality, biological resources, cultural resources, geological hazards, land use, paleontological resources, project overview, socioeconomics, soils, traffic and transportation, visual resources, and water resources. Since the initial data adequacy recommendation was filed, URS Corporation acting on behalf of the Southern California Public Power Authority (applicant), has submitted draft supplemental material to address the deficiencies. Staff has reviewed the draft supplemental information and determined that the AFC is now data adequate in 22 of the 23 technical disciplines. At this time the only information which is needed to make the AFC data adequate is documentation of data completeness from the South Coast Air Quality Management District (AQMD). The applicant will file the official AFC supplemental information for docketing prior to the March 12, 2008 Business Meeting.

Attached is a summary table and revised data adequacy worksheets for the twelve technical disciplines previously determined to be data inadequate, reflecting that the supplemental information submitted by the applicant makes the AFC adequate in all but the area of air quality.

If the South Coast AQMD finds that the applicant's Authority to Construct Application is complete prior to the Energy Commission's Business Meeting on March 12, 2009, I will recommend that the Energy Commission accept the Canyon Power Plant AFC with the supplemental information as data adequate, and request that a committee be appointed. If you have any questions, please call Che E. McFarlin, staff's Project Manager, at (916) 651-0965.

Attachments

**Attachment A**  
**Overview of Energy Commission Staff's**  
**Data Adequacy Determination**  
**Canyon Power Plant Project**  
**07-AFC-9**

Technical Area	Attachment B Page No.	Adequate?
AIR QUALITY .....	4	NO
BIOLOGICAL RESOURCES .....	10	YES
CULTURAL RESOURCES .....	19	YES
GEOLOGICAL HAZARDS .....	26	YES
LAND USE .....	28	YES
PALEONTOLOGICAL RESOURCES .....	33	YES
PROJECT OVERVIEW .....	36	YES
SOCIOECONOMICS .....	41	YES
SOILS .....	46	YES
TRAFFIC AND TRANSPORTATION .....	49	YES
VISUAL RESOURCES .....	54	YES
WATER RESOURCES .....	59	YES
		YES

## **ATTACHMENT B**

### **ENERGY COMMISSION STAFF'S List of Data Inadequacies Revised to Reflect AFC Supplement**

**Canyon Power Plant Project  
07-AFC-9**

**March 7, 2008**

Adequacy Issue: Adequate \_\_\_\_\_ Inadequate X  
 Technical Area: **Air Quality**  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Plant  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008  
 Technical Staff: Joe Loyer & Geoff Lesh  
 Technical Senior: Keith Golden

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 6.2 Pages 6.2-1 through 80	Yes	
Appendix B (g) (8) (A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	Application was submitted to the SCAQMD on December 27, 2007.	No	Please provide the letter of data completeness from the SCAQMD when it is available.
Appendix B (g) (8) (B)	The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.	Appendix B3	Yes	
Appendix B (g) (8) (C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Section 6.2.5 Page 6.2-52 Appendix B6	Yes	
Appendix B (g) (8) (D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	Appendix B3	Yes	
Appendix B (g) (8) (E)	The emission rates of criteria pollutants and greenhouse gases (CO <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> O, and SF <sub>6</sub> ) from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all on-site secondary emission sources.	Section 6.2.2.2.7 Page 6.2-32 Table 6.2-21 Page 6.2-34 Appendix B4 <u>Response: AQ-1</u>	<del>No</del> <u>Yes</u>	<del>Please report all expected emissions of SF<sub>6</sub> from the project switching and transformer equipment mentioned on pages 4-1 and 3-2.</del>

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Appendix B (g) (8) (F)(i)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	Section 6.2.2.2 Pages 6.2-21 through 32 Table 6.2-15 through 16 Page 6.2-26 through 28 Appendix B3	Yes	
Appendix B (g) (8) (F)(ii)	A description of the project's planned initial commissioning phase, which is the phase between the first firing of emissions sources and the commercial operations date, including the types and durations of equipment tests, criteria pollutant emissions, and monitoring techniques to be used during such tests.	S6.2.2.2.6 Page 6.2-30 Appendix B3	Yes	
Appendix B (g) (8) (G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, two, or all stations is either not available or unnecessary.	Section 6.2.1.2 Pages 6.2-8 through 18 Tables 6.2-2 through 6 Pages 6.2-10 through 18	Yes	
Appendix B (g) (8) (H)	One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution control district.	Section 6.2.1.1 Pages 6.2-4 through 8 Table 6.2-1 Page 6.2-7 Appendix B1 Modeling Files	Yes	

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Appendix B (g) (8) (H) (i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995)), which is incorporated by reference in its entirety.	NA	NA	
Appendix B (g) (8) (H) (ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	Modeling Files Appendix B1	Yes	
Appendix B (g) (8) (I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:	---	---	
Appendix B (g) (8) (I) (i)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM <sub>10</sub> ) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NO <sub>x</sub> ), sulfur dioxide (SO <sub>2</sub> ), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM <sub>10</sub> ) and particulate matter less than 2.5 microns in diameter (PM <sub>2.5</sub> )] from construction-related equipment;	Section 6.2.2.1 Pages 6.2-19 through 23 Section 6.2.2.2.3.5 Page 6.2-38 Table 6.2-24 Page 6.2-43 Appendix B2 Modeling Files	Yes	

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Appendix B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant (NO <sub>x</sub> , SO <sub>2</sub> , CO, PM <sub>10</sub> , and PM <sub>2.5</sub> ) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions;	Section 6.2.2.3.6 Pages 6.2-38 through 42 Section 6.2.2.3.7 Page 6.2-34 Modeling Files	Yes	
Appendix B (g) (8) (I) (iii)	A protocol for a cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard; and	Section 6.2.3 Page 6.2-49	Yes	
Appendix B (g) (8) (I) (iv)	An air dispersion modeling analysis of the impacts of the initial commissioning phase emissions on state and federal ambient air quality standards for NO <sub>x</sub> , SO <sub>2</sub> , CO, PM <sub>10</sub> , and PM <sub>2.5</sub> .	Section 6.2.2.4.3 Page 6.2-46 Table 6.2-26 Page 6.2-47	Yes	
Appendix B (g) (8) (J)	If an emission offset strategy is proposed to mitigate the project's impacts under subsection (g)(1), provide the following information:	Section 6.2.4 Pages 6.2-50 through 51 Confidential Filing	Yes	

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Appendix B (g) (8) (J) (i)	The quantity of offsets or emission reductions that are needed to satisfy air permitting requirements of local permitting agencies (such as the air district), state and federal oversight air agencies, and the California Energy Commission. Identify by criteria air pollutant, and if appropriate, greenhouse gas; and	Table 6.2-27 Page 6.2-51 Table 6.2-28 Page 6.2-51	Yes	
Appendix B (g) (8) (J) (ii)	Potential offset sources, including location, and quantity of emission reductions;	Section 6.2.4 Page 6.2-50 and 51 Confidential Filing	Yes	
Appendix B (g) (8) (K)	A detailed description of the mitigation, if any, which an applicant may propose, for all projects impacts from criteria pollutants that currently exceed state or federal ambient air quality standards, but are not subject to offset requirements under the district's new source review rule.	Section 6.2.4 Page 6.2-50 and 51 Confidential Filing	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Section 6.2.6 Pages 6.2-52 through 73 Table 6.2-34 Pages 6.2-74 through 78	Yes	



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Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 6.2-35 Page 6.2-79 Table 6.2-36 Page 6.2-79	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 6.2-35 Page 6.2-79	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 6.2-36 Page 6.2-79	Yes	

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Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Existing site conditions: Section 6.6.1, p. 6.6-3  Direct, indirect, and cumulative impacts: Sections 6.6.2.1 through 6.6.2.3, pp. 6.6-11 through 6.6-14  Mitigation measures: Section 6.6.3.1, p. 6.6-15  Monitoring plans: Section 6.6.3, p. 6.6-14	Yes   Yes   Yes  Yes	
Appendix B (g) (13) (A)	A regional overview and discussion of terrestrial and aquatic biological resources, with particular attention to sensitive biological resources within ten (10) miles of the project. Include a map at a scale of 1:100,000 (or other suitable scale) showing sensitive biological resource location(s) in relation to the project site and related facilities and any boundaries of a local Habitat Conservation Plan or similar open space land use plan or designation. Sensitive biological resources include the following:	Regional overview: Section 6.6.1, p.6.6-3  Regional vicinity maps: Figure 6.6-1	Yes  Yes	
Appendix B (g) (13) (A) (i)	species listed under state or federal Endangered Species Acts;	Federal and state Endangered Species: Table 6.6-1, p. 6.6-4	Yes	
Appendix B (g) (13) (A) (ii)	resources defined in sections 1702(q) and (v) of Title 20 of the California Code of Regulations;	Areas of critical concern and species of special concern: Section 6.6.1.5, pp. 6.6-8 through 6.6-10	Yes	
Appendix B (g) (13) (A) (iii)	species identified as state Fully Protected;	State Fully Protected species: Table 6.6-1	Yes	

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Appendix B (g) (13) (A) (iv)	species covered by Migratory Bird Treaty Act;	Migratory Bird Act species: Section 6.6.1.4, pp. 6.6-7 through 6.6-8	Yes	
Appendix B (g) (13) (A) (v)	species and habitats identified by local, state, and federal agencies as needing protection, including but not limited to those identified by the California Natural Diversity Database, or where applicable, in Local Coastal Programs or in relevant decisions of the California Coastal Commission; and	Species and habitats identified in the California Natural Diversity Database: Table 6.6-1, Section 6.6.1.1, pp. 6.6-3 through 6.6-4.	Yes	
Appendix B (g) (13) (A) (vi)	fish and wildlife species that have commercial and/or recreational value.	Fish and wildlife of commercial or recreational value: Not applicable	N/A	
Appendix B (g) (13) (B)	Include a list of the species actually observed and those with a potential to occur within 1 mile of the project site and 1,000 feet from the outer edge of linear facility corridors. Maps or aerial photographs shall include the following:	List of species observed: Table 6.6-2	Yes	
Appendix B (g) (13) (B) (i)	Detailed maps at a scale of 1:6,000 or color aerial photographs taken at a recommended scale of 1 inch equals 500 feet (1:6,000) with a 30 percent overlap that show the proposed project site and related facilities, biological resources including, but not limited to, those found during project-related field surveys and in records from the California Natural Diversity Database, and the associated areas where biological surveys were conducted. Label the biological resources and survey areas as well as the project facilities;	Map of proposed project site: Figure 6.6-2  Map of biological resources: Figures 6.6-1, 6.6-2  Map of survey area: Figure 6.6-2	Yes  Yes  Yes	

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Appendix B (g) (13) (B) (ii)	A depiction of the extent of the thermal plume at the surface of the water if cooling water is proposed to be discharged to a water source. Provide the location for the intake and discharge structures on an aerial photograph(s) or detailed maps. Water sources include, but are not limited to, waterways, lakes, impoundments, oceans, bays, rivers, and estuaries; and	Depiction of the thermal plume: Not applicable  Location of intake and discharge structures: Not applicable	N/A  N/A	
Appendix B (g) (13) (B) (iii)	An aerial photo or wetlands delineation maps at a scale of (1:2,400) showing any potential jurisdictional and non-jurisdictional wetlands delineated out to 250 feet from the edge of disturbance if wetlands occur within 250 feet of the project site and/or related facilities that would be included with the US Army Corps of Engineers (USACE) Section 404 Permit application. For projects proposed to be located within the coastal zone, also provide aerial photographs or maps as described above that identify wetlands as defined by the Coastal Act.	Potential jurisdictional or non-jurisdictional wetlands map: <u>Response BIO-1</u>  Coastal zone wetlands map: Not applicable	<del>No</del> <u>Yes</u>  N/A	<del>Please provide a 1:24,000 scale map showing potential jurisdictional and/or non-jurisdictional wetlands where the proposed gas line would cross Carbon Creek.</del>
Appendix B (g) (13) (C)	A discussion of the biological resources at the proposed project site and related facilities. Related facilities include, but are not limited to, laydown and parking areas, gas and water supply pipelines, transmission lines, and roads. The discussion shall address the distribution of vegetation community types, denning or nesting sites, population concentrations, migration corridors, breeding habitats, and other appropriate biological resources including the following:	Discussion of biological resources at project site: Section 6.6.1, pp. 6.6-3 through 6.6-9  Discussion of biological resources at related facilities: Section 6.6.1, pp. 6.6-3 through 6.6-9	Yes  Yes	
Appendix B (g) (13) (C) (i)	A list of all the species actually observed;	List of species observed: Table 6.6-2	Yes	

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Appendix B (g) (13) (C) (ii)	A list of sensitive species and habitats with a potential to occur (as defined in (A) above); and	Sensitive species and habitats with potential to occur: Table 6.6-1	Yes	
Appendix B (g) (13) (C) (iii)	If cooling water is taken directly from or discharged to a surface water feature source, include a description of the intake structure, screens, water volume, intake velocity hydraulic zone field of influence, and the thermal plume dispersion area as depicted in response to B(ii) above. Describe the thermal plume size and dispersion under high and low tides, and in response to local currents and seasonal changes. Provide a discussion of the aquatic habitats, biological resources, and critical life stages found in these affected waters. For repower projects that anticipate no change in cooling water flow, this information shall be provided in the form of the most recent federal Clean Water Act 316(a) and (b) studies of entrainment and impingement impacts that has been completed within the last five (5) years. For new projects or repower projects proposing to use once-through cooling and anticipating an increase in cooling water flow, provide a complete impingement and entrainment analysis per guidance in (D)(ii), below.	<p>Intake structure characteristics: Not applicable</p> <p>Thermal plume description: Not applicable</p> <p>Aquatic habitat and biological resources affected: Not applicable</p> <p>Impingement and entrainment analysis: Not applicable</p>	<p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>	

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Appendix B (g) (13) (D)	A description and results of all field studies and seasonal surveys used to provide biological baseline information about the project site and associated facilities. Include copies of the California Natural Diversity Database records and field survey forms completed by the applicant's biologist(s). Identify the date(s) the surveys were completed, methods used to complete the surveys, and the name(s) and qualifications of the biologists conducting the surveys. Include:	Description of field studies: Section 6.6.1.1, pp. 6.6-3 through 6.6-4  Copies of CNDDDB records and field survey forms: Figure 6.6-1  Qualifications of biologists: Appendix H	Yes  Yes  Yes	
Appendix B (g) (13) (D) (i)	Current biological resources surveys conducted using appropriate field survey protocols during the appropriate season(s). State and federal agencies with jurisdiction shall be consulted for field survey protocol guidance prior to surveys if a protocol exists;	Current biological surveys: Section 6.6.1.1, pp. 6.6-3 through 6.6-4	Yes	
Appendix B (g) (13) (D) (ii)	If cooling water is proposed to be taken directly from or discharged to a surface water feature source, seasonal aquatic resource studies and surveys shall be conducted. Aquatic resource survey data shall include, but is not limited to, fish trawls, ichthyoplankton and benthic sampling, and related temperature and water quality samples. For new projects or repower projects anticipating a change in cooling water flows, sampling protocols shall be provided to the Energy Commission staff for review and concurrence prior to the start of sampling. For repower projects not anticipating a change in cooling water flows, this information shall be provided in the form of the most recent federal Clean Water Act 316(b) impingement and entrainment impact study completed within five (5) years of the AFC filing date; and	Aquatic resource studies and surveys: Not applicable  Aquatic resource survey data or impingement and entrainment impact study: Not applicable	N/A  N/A	

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Appendix B (g) (13) (D) (iii)	If the project or any related facilities could impact a jurisdictional or non-jurisdictional wetland, provide completed Army Corps of Engineers wetland delineation forms and/or determination of wetland status pursuant to Coastal Act requirements, name(s) and qualifications of biologist(s) completing the delineation, the results of the delineation and a table showing wetland acreage amounts to be impacted.	Impacts to jurisdictional or non-jurisdictional wetlands: Section 6.6.1.3, pp. 6.6-5 through 6.6-7 <u>Response BIO-2</u>	<del>No</del> <u>Yes</u>	<del>Please provide a record of conversation with the USACE regarding the wetland status of the proposed gas line crossing of Carbon Creek.</del>
Appendix B (g) (13) (E)	Impacts discussion of the following:			
Appendix B (g) (13) (E) (i)	all impacts (direct, indirect, and cumulative) to biological resources from project site preparation, construction activities, plant operation, maintenance, and closure. Discussion shall also address sensitive species habitat impacts from cooling tower drift and air emissions;	Project site impacts: Section 6.6.2.1, pp. 6.6-11 through 6.6-14  Air emission impacts on sensitive species: Section 6.6.2.1, pp. 6.6-11 through 6.6-12.	Yes  Yes	
Appendix B (g) (13) (E) (ii)	facilities that propose to take water directly from, and/or discharge water to surface water features, daytime and nighttime impacts from the intake and discharge of water during operation, water velocity at the intake screen, the intake field of influence, impingement, entrainment, and thermal discharge. Provide a discussion of the extent of the thermal plume, effluent chemicals, oxygen saturation, intake pump operations, and the volume and rate of cooling water flow at the intake and discharge location; and	Intake impacts: Not applicable  Thermal plume impacts: Not applicable	N/A  N/A	

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Appendix B (g) (13) (E) (iii)	Methods to control biofouling and chemical concentrations, and temperatures that are currently being discharged or will be discharged to receiving waters.	Biofouling and chemical concentration controls: Not applicable  Discharge temperatures: Not applicable	N/A  N/A	
Appendix B (g) (13) (F)	A discussion of all feasible mitigation measures including, but not limited to the following:			
Appendix B (g) (13) (F) (i)	All measures proposed to avoid and/or reduce adverse impacts to biological resources;	Section 6.6.3, p. 6.6-14	Yes	
Appendix B (g) (13) (F) (ii)	All off-site habitat mitigation and habitat improvement or compensation, and an identification of contacts for compensation habitat and management;	Section 6.6.3.1, p. 6.6-15	Yes	
Appendix B (g) (13) (F) (iii)	Design features to better disperse or eliminate a thermal discharge;	Design features to eliminate thermal discharge: Not applicable	N/A	
Appendix B (g) (13) (F) (iv)	All measures proposed to avoid or minimize adverse impacts of cooling water intake. This shall include a Best Technology Available (BTA) discussion. If BTA is not being proposed, the rationale for not selecting BTA must be provided; and	Measures to minimize impacts of cooling water intake: Not applicable	N/A	
Appendix B (g) (13) (F) (v)	Educational programs to enhance employee awareness during construction and operation to protect biological resources.	Employee biological resource awareness training: Section 6.6.3, p. 6.6-14	Yes	
Appendix B (g) (13) (G)	A discussion of compliance and monitoring programs to ensure the effectiveness of impact avoidance and mitigation measures incorporated into the project.	Monitoring compliance effectiveness: Section 6.6.3, p. 6.6-14	Yes	



Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Biological Resources    
 Project Manager:   Che McFarland  

**DATA ADEQUACY WORKSHEET**  
 Project:   Canyon Power Plant    
 Docket:   07-AFC-09  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Brian McCollough    
 Technical Senior:   Rick York  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (13) (H)	Submit copies of any preliminary correspondence between the project applicant and state and federal resource agencies regarding whether federal or state permits from other agencies such as the U. S. Fish and Wildlife Service (USFWS), the National Marine Fisheries Service (NMFS), the U.S. Army Corps of Engineers (USACE), the California Department of Fish and Game (CDFG), and the Regional Water Quality Control Board (RWCB) will be required for the proposed project.	Contact with state and federal agencies regarding permits: Section 6.6.4.4, p. 6.6-19 <u>Response BIO-3</u>	<del>No</del> <u>Yes</u>	<del>Please provide any preliminary correspondence between the applicant and state and federal wildlife agencies, noting the agency contact information. The contact information will also satisfy item B (i) (2) below.</del>
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Table identifying applicable biological resources laws, ordinances, regulations, and standards: Table 6.6-3 pp. 6.6-16 through 6.6-17	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Tables identifying agencies with jurisdiction: Table 6.6-3, pp. 6.6-16 through 6.6-17	Yes	

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Biological Resources    
 Project Manager:   Che McFarland  

## DATA ADEQUACY WORKSHEET

Project:   Canyon Power Plant    
 Docket:   07-AFC-09  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Brian McCollough    
 Technical Senior:   Rick York  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Agency contact information: Section 6.6.4.4, p. 6.6-19 <u>Response BIO-4</u>	<del>No</del> <u>Yes</u>	<del>Please provide agency contact information for the state and federal wildlife agencies regarding this project.</del>
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Permit schedule: Section 6.6.4.5, p. 6.6-19 <u>Response BIO-4</u>	<del>No</del> <u>Yes</u>	<del>Please provide a permitting schedule based on discussions with state and federal wildlife agencies regarding the permit requirements of this project.</del>

Adequacy Issue: Adequate X Inadequate         
 Technical Area: Cultural Resources  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Plant  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008  
 Technical Staff: Beverly E. Bastian  
 Technical Senior: Rick York

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	existing site conditions: Vol. 1, p. 6.7-1  impacts due to project: Vol. 1, p. 6.7-36  mitigation measures for known impacts  effectiveness of the proposed measures  any monitoring plans proposed to verify the effectiveness of the mitigation	Yes  Yes  N/A  N/A  N/A	
Appendix B (g) (2) (A)	A summary of the ethnology, prehistory, and history of the region with emphasis on the area within no more than a 5-mile radius of the project location.	summary of the ethnology, prehistory, and history: Vol. 1, pp. 6.7-4 to 6.7-18	Yes	

Adequacy Issue: Adequate X Inadequate         
 Technical Area: Cultural Resources  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Plant  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008  
 Technical Staff: Beverly E. Bastian  
 Technical Senior: Rick York

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (B)	<p>The results of a literature search to identify cultural resources within an area not less than a 1-mile radius around the project site and not less than one-quarter (0.25) mile on each side of the linear facilities. Identify any cultural resources listed pursuant to ordinance by a city or county, or recognized by any local historical or archaeological society or museum. Literature searches to identify the above cultural resources must be completed by, or under the direction of, individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed.</p> <p>Copies of California Department of Parks and Recreation (DPR) 523 forms (Title 14 CCR §4853) shall be provided for all cultural resources (ethnographic, architectural, historical, and archaeological) identified in the literature search as being 45 years or older or of exceptional importance as defined in the National Register Bulletin Guidelines, (36CFR60.4(g)). A copy of the USGS 7.5' quadrangle map of the literature search area delineating the areas of all past surveys and noting the California Historical Resources Information System (CHRIS) identifying numbers shall be provided. Copies also shall be provided of all technical reports whose survey coverage is wholly or partly within .25 mile of the area surveyed for the project under Section (g)(2)(C), or which report on any archaeological excavations or architectural surveys within the literature search area.</p>	<p>literature searches: Vol. 1, p. 6.7-19 to 6.7-21</p> <p>cultural resources listed under a city or county ordinance: Vol. 1, p. 6.7-22</p> <p>cultural resources recognized by local societies: Vol. 1, p. 6.7-22</p> <p>names/quals for lit searchers/directors: <u>2/14/08 Response: CUL-3, resumes for L. Solis and J. Hollins</u></p> <p>DPR 523s for known resources: <u>2/14/08 Response: CUL-1, copies, forms for 9 cultural resources</u></p> <p>map of lit search area with past surveys and CHRIS #s: <u>2/14/08 Response: CUL-2, map with coverage of four surveys delineated</u></p> <p>CHRIS reports: <u>2/14/08 Response: CUL-5, copies of 5 reports</u></p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p><del>No</del> Yes</p> <p><del>No</del> Yes</p> <p><del>No</del> Yes</p> <p><del>No</del> Yes</p>	<p><del>Please provide resumes for Laurie Solis and Jeremy Hollins. Response to this item will also satisfy items B (g) (2) (C) and B (g) (C) (v).</del></p> <p><del>Please provide, under confidential cover, copies of DPR 523 forms for resources listed in Vol. 1, p. 6.7-21.</del></p> <p><del>Applicant needs to provide a copy of the USGS 7.5' quadrangle map of the literature search area delineating the coverage of past cultural resources surveys and labeled with the CHRIS survey report numbers.</del></p> <p><del>Please provide copies, under confidential cover, of the technical reports, obtained from the CHRIS, any part of whose coverage is within 0.25 miles of the area newly surveyed for the project.</del></p>

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Cultural Resources    
 Project Manager:   Che McFarlin  

## DATA ADEQUACY WORKSHEET

Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Beverly E. Bastian    
 Technical Senior:   Rick York  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C)	<p>The results of new surveys or surveys less than 5 years old shall be provided if survey records of the area potentially affected by the project are more than five (5) years old. Surveys to identify new cultural resources must be completed by (or under the direction of) individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed.</p> <p>New pedestrian archaeological surveys shall be conducted inclusive of the project site and project linear facility routes, extending to no less than 200' around the project site, substations and staging areas, and to no less than 50' to either side of the right-of-way of project linear facility routes. New historic architecture field surveys in rural areas shall be conducted inclusive of the project site and the project linear facility routes, extending no less than .5 mile out from the proposed plant site and from the routes of all above-ground linear facilities. New historic architecture field surveys in urban and suburban areas shall be conducted inclusive of the project site, extending no less than one parcel's distance from all proposed plant site boundaries. New historic architecture field reconnaissance ("windshield survey") in urban and suburban areas shall be conducted along the routes of all linear facilities to identify, inventory, and characterize structures and districts that appear to be older than 45 years or that are exceptionally significant, whatever their age.</p> <p>A technical report of the results of the new surveys, conforming to the Archaeological Resource Management Report format (CA Office of Historic Preservation Feb 1990), which is incorporated by reference, shall be separately provided and submitted (under confidential cover if archaeological site locations are included).</p>	<p>names/quals for archaeological surveyors or directors: <u>2/14/08 Response: CUL-3, resume for L. Solis</u></p> <p>names/quals for historical architecture surveyors or directors: <u>2/14/08 Response: CUL-2, resume for J. Hollins</u></p> <p>survey coverage, archaeology: Vol. 2, Conf. App. D3, p. 6-1</p> <p>survey coverage, architecture</p> <p>tech report for new archaeological survey: Vol. 2, Conf. App. D3</p> <p>tech report for new historical architecture survey: Vol. 2, App. D1; App. D2</p>	<p><del>No</del> <u>Yes</u></p> <p><del>No</del> <u>Yes</u></p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	<p><del>Please provide resume for Laurie Solis.</del></p> <p><del>Please provide resume for Jeremy Hollins</del></p>

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Cultural Resources    
 Project Manager:   Che McFarlin  

**DATA ADEQUACY WORKSHEET**  
 Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Beverly E. Bastian    
 Technical Senior:   Rick York  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C) cont.	Information included in the technical report shall also be provided in the Application for Certification, except that confidential information (archaeological sites or areas of religious significance) shall be submitted under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq. At a minimum, the technical report shall include the following:	AFC includes tech report data, unless confidential: Vol. 1, section 6.7	Yes	
Appendix B (g) (2) (C) (i)	The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B);	summary: Vol. 2, Conf. App. D3, pp. 4-8 to 4-15  lit-search results: Vol. 2, Conf. App. D3, pp. 5-1 to 5-3	Yes  Yes	
Appendix B (g) (2) (C) (ii)	The survey procedures and methodology used to identify cultural resources and a discussion of the cultural resources identified by the survey;	archaeological methodology: Vol. 2, Conf. App. D3, pp. 6-1 to 6-3  historical architecture methodology: Vol. 2, App. D1, p. 5; App. D2, p. 5-5	Yes  Yes	
Appendix B (g) (2) (C) (iii)	Copies of all new and updated DPR 523(A) forms. If a cultural resource may be impacted by the project, also include the appropriate DPR 523 detail form for each such resource;	archaeology forms:  architecture forms: Vol. 2, App. D1; App. D2	N/A  Yes	
Appendix B (g) (2) (C) (iv)	A map at a scale of 1:24,000 U.S. Geological Survey quadrangle depicting the locations of all previously known and newly identified cultural resources compiled through the research required by Appendix B (g)(2)(B) and Appendix B (g)(2)(C) (ii); and	archaeology map: Vol. 2, Conf. App. D3, fig. 9  architecture map: Vol. 2, App. D1, map 2; App. D2; figs 2, 15	Yes  Yes	

Adequacy Issue: Adequate X Inadequate         
 Technical Area: Cultural Resources  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Plant  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008  
 Technical Staff: Beverly E. Bastian  
 Technical Senior: Rick York

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (C) (v)	The names and qualifications of the cultural resources specialists who contributed to and were responsible for literature searches, surveys, and preparation of the technical report.	names/quals for archaeologists: <u>2/14/08</u> <u>Response: CUL-3, resume for L. Solis</u>  names/quals for architectural historians: <u>2/14/08</u> <u>Response: CUL-3, resume for J. Hollins</u>	<del>No</del> <u>Yes</u>  <del>No</del> <u>Yes</u>	<del>Please provide resume for Laurie Solis.</del>  <del>Please provide resume for Jeremy Hollins</del>
Appendix B (g) (2) (D)	Provide a copy of your request to the Native American Heritage Commission (NAHC) for information on Native American sacred sites and lists of Native Americans interested in the project vicinity, and copies of any correspondence received from the NAHC. Notify the Native Americans on the NAHC list about the project, including a project description and map. Provide a copy of all correspondence sent to Native American individuals and groups listed by the NAHC and copies of all responses. Provide a written summary of any oral responses.	NAHC request: <u>2/14/08</u> <u>Response: CUL-5, copy, 8/20/07 letter</u>  NAHC response: <u>2/14/08</u> <u>Response: CUL-5, copy, 8/20/07 letter and list</u>  letters sent to Native Americans: <u>2/14/08</u> <u>Response: CUL-5, copies of 6 letters</u>  responses from Native Americans: <u>2/14/08</u> <u>Response: none received</u>  summary of oral responses from Native Americans: <u>2/14/08</u> <u>Response: CUL-5, copies of two phone conversations</u>	<del>No</del> <u>Yes</u>  <del>No</del> <u>Yes</u>  <del>No</del> <u>Yes</u>  <del>No</del> <u>Yes</u>  <del>No</del> <u>Yes</u>	<del>Please provide a copy of their letter to the NAHC.</del>  <del>Please provide copies of the letter and list received from the NAHC.</del>  <del>Please provide copies of the letters sent to the listed Native Americans.</del>  <del>Please provide copies of all letters or emails received from Native Americans.</del>  <del>Please provide copies of the transcripts of any oral communications with Native Americans.</del>

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Cultural Resources    
 Project Manager:   Che McFarlin  

## DATA ADEQUACY WORKSHEET

Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Beverly E. Bastian    
 Technical Senior:   Rick York  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (2) (E)	Include in the discussion of proposed mitigation measures required by subdivision (g)(1):	mitigation measures for known impacts: Vol. 1, p. 6.7-36	Yes	
Appendix B (g) (2) (E) (i)	A discussion of measures proposed to mitigate project impacts to known cultural resources;	mitigation measures for known impacts: Vol. 1, p. 6.7-36	Yes	
Appendix B (g) (2) (E) (ii)	A set of contingency measures proposed to mitigate potential impacts to previously unknown cultural resources and any unanticipated impacts to known cultural resources; and	contingency mitigation measures: Vol. 1, pp. 6.7-37 to 6.7-38	Yes	
Appendix B (g) (2) (E) (iii)	Educational programs to enhance employee awareness during construction and operation to protect cultural resources.	worker education: Vol. 1, 6.7-37 to 6.7-38	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	tables identifying applicable LORS: Vol. 1, table 6.7-3  explicitly referenced pages: Vol. 1, table 6.7-3  discussion of applicability of LORS: Vol. 1, p. 6.7-38	Yes  Yes  Yes	



Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: Cultural Resources  
 Project Manager: Che McFarlin

**DATA ADEQUACY WORKSHEET**  
 Project: Canyon Power Plant  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008  
 Technical Staff: Beverly E. Bastian  
 Technical Senior: Rick York

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	tables identifying agencies: <u>2/14/08 Response: CUL-6, new table</u>	<del>No</del> <u>Yes</u>	<del>Please compile a table listing the agencies mentioned in text on p. 6.7-39.</del>
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	official within each agency who will serve as a contact person for the agency: <u>2/14/08 Response: CUL-6, new table</u>	<del>No</del> <u>Yes</u>	<del>Please add to the above table the names and contact information for the agency contact persons.</del>
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	schedule indicating when outside permits will be obtained:	N/A	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: **Geological Hazards**  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Plant  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008  
 Technical Staff: Dal Hunter, Ph.D., C.E.G.  
 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 6.3, Page 6.3-1; Section 6.3.1, Pages 6.3-4 through 6.3-5; Section 6.3.2.4, Page 6.3-12; Section 6.3.2.5, Page 6.3-13; Section 6.3.3, Page 6.3-13; and Appendix F.	Yes	
Appendix B (g) (17) (A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities, including linear facilities.	Section 6.3.1, Pages 6.3-3 through 6.3-11; Section 6.3.2, Page 6.3-12; Section 6.3.3.1, Page 6.3-13; and Appendix F.	Yes	
Appendix B (g) (17) (B)	A map at a scale of 1:24,000 and description of all recognized stratigraphic units, geologic structures, and geomorphic features within two (2) miles of the project site and along proposed facilities. Include an analysis of the likelihood of ground rupture, seismic shaking, mass wasting and slope stability, liquefaction, subsidence, tsunami runup, and expansion or collapse of soil structures at the plant site. Describe known geologic hazards along or crossing linear facilities.	Figures 6.3-1 through 6.3-5; Section 6.3.1, Pages 6.3-3 through 6.3-11; Section 6.3.3.1, Page 6.3-13; and Appendix F.	Yes	
Appendix B (g) (17) (C)	A map and description of geologic resources of recreational, commercial, or scientific value which may be affected by the project. Include a discussion of the techniques used to identify and evaluate these resources.	Section 6.3, Page 6.3-1; Section 6.3.1.3, Pages 6.3-4 through 6.3-5; Section 6.3.2, Page 6.3-12; and Appendix F.	Yes	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: **Geological Hazards**  
 Project Manager: Che McFarlin

**DATA ADEQUACY WORKSHEET**  
 Project: Canyon Power Plant  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008  
 Technical Staff: Dal Hunter, Ph.D., C.E.G.  
 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Table 6.3-3 and Section 6.3.4, Pages 6.3-13 through 6.3-14.	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 6.3-4 and Section 6.3-4, Pages 6.3-14 through 6.3-15.	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 6.3-4. <u>Response to Data Request: GEO-1</u>	<u>No</u> <u>Yes</u>	<del>Please provide physical address of each agency contact. Provide e-mail address if known.</del>
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Section 6.3.4.5, Page 6.3-15.	Yes	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: Land Use  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Project (CPP)  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008  
 Technical Staff: Shaelyn Strattan  
 Technical Senior: Vacant

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§2.0 (pp.2-1,2) <u>Site Conditions</u> : §3.3; §6.9.1; also §6.X.1 throughout the AFC. <u>Impacts</u> : §6.9.2; also §§6.X.2 and 6.X.3 throughout the AFC. <u>Mitigation &amp; Monitoring</u> : §6.9.3; also §6.X.4 throughout the AFC.	Yes	
Appendix B (g) (3) (A)	A discussion of existing land uses and current zoning at the site, land uses and land use patterns within one mile of the proposed site and within one-quarter mile of any project-related linear facilities. :	§§6.9.1	Yes	
Appendix B (g) (3) (A) (i)	An identification of residential, commercial, industrial, recreational, scenic, agricultural, natural resource protection, natural resource extraction, educational, religious, cultural, and historic areas, and any other area of unique land uses;	§§6.9.1, 6.4.1.2, 6.3.2, 6.6.2, 6.2.3, 6.10.1.3.4, 6.13.1.4.3 Table 6.9-1, 6.10-7 Figs. 6.6-1, 6.6-2, 6.7-10 Appendices D, E	Yes	
Appendix B (g) (3) (A) (ii)	A discussion of any trends in recent zoning changes and potential future land use development;	§§6.9.1.6 Figure 6.9-2	Yes	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: Land Use  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Project (CPP)  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008

Technical Staff: Shaelyn Strattan

Technical Senior: Vacant

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (A) (iii)	Identification of all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii);	Tables 6.9-3, 6.9-4	Yes	
Appendix B (g) (3) (A) iv)	Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated.	Figs. 6.9-1, 6.9-2. 6.9-3, 6.9-4	Yes	
Appendix B (g) (3) (B)	A discussion of the compatibility of the proposed facilities with present and expected land uses, and conformity with any long-range land use plans adopted by any federal, state, regional, or local planning agency. The discussion shall identify the need, if any, for variances or any measures that would be necessary to make the proposal conform with permitted land uses.	§6.9.1 Appendix G – Variance Letter	Yes	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: Land Use  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Project (CPP)  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008  
 Technical Staff: Shaelyn Strattan  
 Technical Senior: Vacant

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (C)	A discussion of the legal status of the parcel(s) on which the project is proposed. If the proposed site consists of more than one legal parcel, describe the method and timetable for merging or otherwise combining those parcels so that the proposed project, excluding linears and temporary laydown or staging area, will be located on a single legal parcel. The merger need not occur prior to a decision on the Application but must be completed prior to the start of construction.	§6.9.4.5 <u>Response: LAND-1, LLA #648</u> <u>(Approved 1/29/08)</u>	<del>No</del> <u>Yes</u>	<del>The number and legal status of the parcel(s) for this project are unknown, based on the information provided in the AFC. Legal land division parcels are established in accordance to the procedures and the requirements set forth in the State Subdivision Map Act (Government Code section 66410 — 66499.58).</del>  For staff to determine whether the property identified in the AFC as the site for the Canyon Power Plant is a legal parcel or parcels, please provide one of the following bulleted items, in addition to a copy of the lot line adjustment referenced in AFC §6.9.4.5: <ul style="list-style-type: none"> <li>• <del>A Certificate of Compliance from the City of Anaheim;</del></li> <li>• <del>A Final Parcel Map, as recorded by the City of Anaheim;</del></li> <li>• <del>A Tentative Parcel Map with a recorded legal description from the City of Anaheim;</del></li> <li>or</li> <li>• <del>A current grant deed AND a grant deed that was recorded closest to, but preceding, the date of March 4, 1972.</del></li> </ul>
Appendix B (g) (3) (D)	A map at a scale of 1:24,000 and written description of agricultural land uses found within all areas affected by the proposed project. The description shall include:	§6.4.1.2 Figs. 6.9-3, 6.9-4 Response to DA Req (LU 1)	Yes	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_

Technical Area: Land Use

Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Project (CPP)

Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008

Technical Staff: Shaelyn Strattan

Technical Senior: Vacant

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (3) (D) (i)	Crop types, irrigation systems, and any special cultivation practices;	N/A	N/A	
Appendix B (g) (3) (D) (ii)	Whether farmland affected by the project is prime, of statewide importance, or unique as defined by the California Department of Conservation; and	N/A	N/A	
Appendix B (g) (3) (D) (iii)	Direct, indirect, and cumulative effects on agricultural land uses. If the proposed site or related facilities are subject to an Agricultural Land Conservation contract, provide a written copy and a discussion of the status of the expiration or canceling of such contract.	§6.4.1.2	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, and permits applicable to the proposed project, and a discussion of the applicability of and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Table 6.9-5	Yes	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: Land Use  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Project (CPP)  
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 Technical Senior: Vacant

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Tables 6.9-6, 6.9-7 <u>Response: LAND-2</u>	<del>No</del> <u>Yes</u>	<del>The AFC only provides a listing for the City of Anaheim (COA) Planning Dept. Land within the one mile study area is also under the jurisdiction of the City of Placentia and Orange County. Please provide a table identifying all agencies within the City of Anaheim, City of Placentia, and Orange County with LORS or land use plans applicable to this project or properties within one mile of the project site and/or 1/4-mile of the linear facilities, or that would have permit/enforcement authority over those properties, but for the exclusive authority of the California Energy Commission.</del>
Appendix B (i) (3)	The name, title, phone number, and address, if known, of an official within each agency who will serve as a contact person for the agency.	Table 6.9-6 <u>Response: LAND-3</u>	<del>No</del> <u>Yes</u>	<del>Only contact information for the COA Planning Dept. is provided. Please provide contact information for the agencies indicated in Appendix B(i)(1)(B) above</del>
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the Energy Commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	§6.9.4.5	Yes	



Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: **Paleontological Resources**  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Plant  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008  
 Technical Staff: Dal Hunter, Ph.D., C.E.G.  
 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Section 6.8, Page 6.8-1; Section 6.8.1.1, Pages 6.8-3 through 6.8-5; Section 6.8.1.3, Pages 6.8-9 through 6.8-11; Section 6.8.2, Page 6.8-11; Section 6.8.3, Page 6.8-12; and Section 6.8.4, Pages 6.8-12 through 6.8-13.	Yes	
Appendix B (g) (16) (A)	Identification of the physiographic province and a brief summary of the geologic setting, formations, and stratigraphy of the project area. The size of the paleontological study area may vary depending on the depositional history of the region.	Section 6.8.1.1, Pages 6.8-3 through 6.8-5 and Section 6.8.1.3.2, Page 6.8-9.	Yes	
Appendix B (g) (16) (B)	A discussion of the sensitivity of the project area described in subsection (g)(16)(A) and the presence and significance of any known paleontologic localities or other paleontologic resources within or adjacent to the project. Include a discussion of sensitivity for each geologic unit identified on the most recent geologic map at a scale of 1:24,000. Provide rationale as to why the sensitivity was assigned.	Section 6.8.1.2, Pages 6.8-5 through 6.8-9; Section 6.8.1.3, Pages 6.8-9 through 6.8-11; and Appendix E. <u>Response: PALEO-1</u>	<del>No</del> <u>Yes</u>	<del>Please provide a 1:24,000 scale geologic map with most recent stratigraphy.</del>
Appendix B (g) (16) (C)	A summary of all local museums, literature searches and field surveys used to provide information about paleontologic resources in the project area described in subsection (g)(16)(A). Identify the dates of the surveys, methods used in completing the surveys, and the names and qualifications of the individuals conducting the surveys.	Section 6.8.1, Page 6.8-3; Section 6.8.1.1.3, Page 6.8-5; Section 6.8.1.3, Pages 6.8-9 through 6.8-10; and Appendix E.	Yes	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: **Paleontological Resources**  
 Project Manager: Che McFarlin

**DATA ADEQUACY WORKSHEET**  
 Project: Canyon Power Plant  
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Revision No. 1 Date March 7, 2008  
 Technical Staff: Dal Hunter, Ph.D., C.E.G.  
 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (16) (D)	Information on the specific location of known paleontologic resources, survey reports, locality records, and maps at a scale of 1:24,000, showing occurrences of fossil finds, if known, within a one-mile radius of the project and related facilities shall be included in a separate appendix to the Application and submitted to the Commission under a request for confidentiality, pursuant to Title 20, California Code of Regulations, s 2501 et seq.	Appendix E.	Yes	
Appendix B (g) (16) (E)	A discussion of any educational programs proposed to enhance awareness of potential impacts to paleontological resources by employees, measures proposed for mitigation of impacts to known paleontologic resources, and a set of contingency measures for mitigation of potential impacts to currently unknown paleontologic resources.	Section 6.8.4, Pages 6.8-12 through 6.8-13.	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Table 6.8-1; Section 6.8.4, Page 6.8-12; Section 6.8.5, Pages 6.8-13 through 6.8-17; and Section 6.8.5.6, Pages 6.8-17 through 6.8-18.	Yes	

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area: **Paleontological Resources**  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Plant  
 Docket: 07-AFC-9

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 Technical Senior: Steve Baker

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 6.8-1; Section 6.8.5.4, Page 6.8-17; and Section 6.8.5.5, Page 6.8-17.	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	N/A	N/A	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	N/A	N/A	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: Project Overview  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

Project: Canyon Power Plant  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008  
 Technical Staff: Che McFarlin  
 Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Cal. Code Regs., tit. 20, § 1704, (a) (3) (A)	Descriptions of all significant assumptions, methodologies, and computational methods used in arriving at conclusions in the document.	Throughout AFC	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (B)	Descriptions, including methodologies and findings, of all major studies or research efforts undertaken and relied upon to provide information for the document; and a description of ongoing research of significance to the project (including expected completion dates; and	Throughout AFC	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (3) (C)	A list of all literature relied upon or referenced in the documents, along with brief discussions of the relevance of each such reference	Throughout AFC	Yes	
Cal. Code Regs., tit. 20, § 1704, (a) (4)	Each principal subject area covered in a notice or application shall be set forth in a separate chapter or section, each of which shall identify the person or persons responsible for its preparation.	Section 7.0 – List of Preparers <u>Response: PROJ-1</u>	<del>No</del> <u>Yes</u>	<del>Please identify the person or persons responsible for the preparation of the Transmission Engineering and Alternatives sections.</del>
Appendix B (a) (1) (A)	A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities, fuel characteristics, fuel supply routes and facilities, water supply routes and facilities, pollution control systems, and other general characteristics.	Section 1.0 – Executive Summary; Section 3.0 – Facility Description and Location; Figures 1.1 and 3.1	Yes	
Appendix B (a) (1) (B)	Identification of the location of the proposed site and related facilities by section, township, range, county and assessor's parcel numbers.	Section 6.0, page 6.4-3	Yes	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: **Project Overview**  
 Project Manager: Che McFarlin

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (1) (C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Figures 1.1 and 3.1	Yes	
Appendix B (a) (1) (D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.	Figure 1.2 and 1.3	Yes	
Appendix B (a) (1) (E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities.	AFC Volume 2, Appendix J	Yes	
Appendix B (a) (2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Section 1.0, page 1-4; Section 3.0, pp 3-40 to 3-41; Table 3.7-1. <u>Response: PROJ-2</u>	<del>No</del> <u>Yes</u>	<del>Please provide a date for initial construction, and initial start-up.</del>
Appendix B (a) (3) (A)	A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities.	Section 1.0, page 1-1; Section 2.0, pp 2-1 to 2-2; Section 3.0, pp 3-1 to 3-3	Yes	
Appendix B (a) (3) (B)	A list of all owners and operators of the proposed electric transmission facilities.	Section 2.11, pp 2-2 to 2-3	Yes	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: Project Overview  
 Project Manager: Che McFarlin

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (a) (3) (C)	A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B).	Section 2.11, pp 2-2 to 2-3	Yes	
Appendix B (b) (1)	In a section entitled, "Generation Facility Description, Design, and Operation" provide the following information:			
Appendix B (b) (1) (A)	Maps at a scale of 1:24,000 (1" = 2000'), (or appropriate map scale agreed to by staff) along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities;	Figure 3-7 Figure 6.9-1 <u>Response PROJ-3</u>	<del>No</del> <u>Yes</u>	<del>Please provide maps that identify the dedicated leaseholds by county assessor's parcel number.</del>
Appendix B (b) (1) (B)	Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities to establish the accuracy of the photo simulations required in Sections (a)(1)(D) and (g)(6)(F);	Figure 3-8 <u>Response PROJ-4</u>	<del>No</del> <u>Yes</u>	<del>Figure 3-8 provides elevation but lacks scale. Please provide plan drawings to scale.</del>
Appendix B (b) (1) (C)	A detailed description of the design, construction and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios; and	Section 3.3 pp 3-4 through 3-29	Yes	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: Project Overview  
 Project Manager: Che McFarlin

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (1) (D)	A description of how the site and related facilities were selected and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant.	Section 5.4 -5.5	Yes	
Appendix B (b) (2)	In a section entitled, "Transmission Lines Description, Design, and Operation" provide the following information:			
Appendix B (b) (2) (A)	Maps at a scale of 1:24,000 (or appropriate map scale agreed to by staff) of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s);	Figure 6.13-2 <u>Response PROJ-5</u>	<del>No</del> <u>Yes</u>	<del>Please provide map depicting one-mile radius delineation..</del>
Appendix B (b) (2) (B)	A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction.	Figure 1-2	Yes	Figure 1-2 shows two new poles located on E. Miraloma Avenue across from the project. All other transmission facilities are located underground and will not affect the current visual landscape along the transmission route.

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Project Overview    
 Project Manager:   Che McFarlin  

## DATA ADEQUACY WORKSHEET

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Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Che McFarlin    
 Technical Senior:   Eric Knight  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (b) (2) (C)	A detailed description of the design, construction, and operation of any electric transmission facilities, such as power lines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights-of-way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators.	Section 4.0 pp 4-1 through	Yes	
Appendix B (b) (2) (D)	A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints; and	Section 5.4 pp 5-2 through 5-4	Yes	
Appendix B (e) (1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Section 3.9 pp 3-15 through 3-52	Yes	



Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Socioeconomics    
 Project Manager:   Che McFarlin  

## DATA ADEQUACY WORKSHEET

Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Marie McLean    
 Technical Senior:   Eric Knight  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	6.10-1, §6.10; 6.10-2—6.10-3, §6.10-1.1; 6.10-13—6.10-28, §6.10.2; 6.10-28—6.10-37, §6.10-3 and §6-10-4; Table 6.10-16; Table 6.10-17	Yes	
Appendix B (g) (7) (A)	A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include:			
Appendix B (g) (7) (A) (i)	The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues;	6.10-5—6.10-9; §6.10.1.2.3 6.10-11—6.12-12; §6-10-1.4; Table 6.10-8	Yes	
Appendix B (g) (7) (A) (ii)	The social characteristics, including population and demographic and community trends;	6.10-3—6.10-9; §6.10.1.2	Yes	
Appendix B (g) (7) (A) (iii)	Existing unemployment rates;	6.10-5—6.10-6; §6.10.1.2.3; Table 6.10-4;	Yes	
Appendix B (g) (7) (A) (iv)	Availability of skilled workers by craft required for construction and operation of the project;	6-10-16; §6.10.2.2 6.10-17—6.10-19; Table 6.10-10; 6-10-20; §6.10.2.4	Yes	
Appendix B (g) (7) (A) (v)	Availability of temporary and permanent housing and current vacancy rate; and	6-10.4—6.10-5; §6.10.1.2.2; Table 6.10-2	Yes	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: Socioeconomics  
 Project Manager: Che McFarlin

## DATA ADEQUACY WORKSHEET

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SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (A) (vi)	Capacities, existing and expected use levels, and planned expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes for the duration of the project schedule.	6.10-9—11 §6.10.1.3; 6.10-20—6.10-22 §6.10.2.5; 6.10-22 §6.10.2.6; Table 6-10-11; Table 6.10-7	Yes	
Appendix B (g) (7) (B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project (note year of estimate, model, if used, and appropriate sources), including:			
Appendix B (g) (7) (B) (i)	An estimate of the number of workers to be employed each month by craft during construction, and for operations, an estimate of the number of permanent operations workers during a year;	6.10-14—6.10-15; Table 6.10-9 6.10-17—6.10-19; Table 6.10-10; 6.10-20; Table 6.10-11	Yes	
Appendix B (g) (7) (B) (ii)	An estimate of the percentage of non-local workers who will relocate to the project area to work on the project;	6.10-13—6.10-16; §6.10.2.1 6.10-16; §6.10.2.3	Yes	
Appendix B (g) (7) (B) (iii)	An estimate of the potential population increase caused directly and indirectly by the project;	6.10-13—6.10-16; §6.10.2.1 6.10-16—6.10.19; §6.10.2.7.4; Table 6.10-9; Table 6.10-10	Yes	

Adequacy Issue: Adequate X Inadequate \_\_\_\_\_  
 Technical Area: Socioeconomics  
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Appendix B (g) (7) (B) (iv)	The potential impact of population increase on housing during the construction and operations phases;	6.10-13—6.10-16; §6.10.2.1 6.10-16; §6.10.2.3	Yes	
Appendix B (g) (7) (B) (v)	The potential impacts, including additional costs, on utilities (gas, water, and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. Include response times to hospitals and for police, and emergency services. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operating phases;	6-10-20—6-10-22; §6.10.2.5; 6.10-22; §6.10.2.6	Yes	
Appendix B (g) (7) (B) (vi)	An estimate of applicable school impact fees;	6.10-24; §6.10.2.7.3	Yes	
Appendix B (g) (7) (B) (vii)	An estimate of the total construction payroll and separate estimates of the total operation payroll for permanent and short-term (contract) operations employees;	6.10-16; §6.10.2.2. 6.10-20; §6.10.2.4 <u>2/14/08 Response:</u> <u>SOCIO-1</u>	<del>No</del> <u>Yes</u>	<del>Please provide separate estimates of the total operation payroll for permanent and short-term (contract) operation employees.</del>
Appendix B (g) (7) (B) (viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project;	6.10-26—6.10-27; §6.10.2.7.4	Yes	
Appendix B (g) (7) (B) (ix)	An estimate of the capital cost (plant and equipment) of the project;	6.10-26; §6.10.2.7.4	Yes	

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Socioeconomics    
 Project Manager:   Che McFarlin  

## DATA ADEQUACY WORKSHEET

Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Marie McLean    
 Technical Senior:   Eric Knight  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (7) (B) (x)	An estimate of sales taxes generated during construction and separately during an operational year of the project;	6.10-23—6.10-26; §6.10.2.7.2. 6.10-23, Table 6.10-12; 6.10-24, Table 6.10-13; 6.10-25, Table 6.10-14; 6.10-26, Table 6.10-15	Yes	
Appendix B (g) (7) (B) (xi)	An estimate of property taxes generated during an operational year of the project; and	6.10-23; §6.10.2.7.1	Yes	
Appendix B (g) (7) (B) (xii)	The expected direct, indirect, and induced income and employment effects due to construction, operation, and maintenance of the project.	6.10-24—6.10-28; §6.10.2.7.4	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	6.10-38; Table 6.10-18	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	6.10-40; Table 6.10-20	Yes	

Adequacy Issue: Adequate X Inadequate         
 Technical Area: Socioeconomics  
 Project Manager: Che McFarlin

**DATA ADEQUACY WORKSHEET**  
 Project: Canyon Power Plant  
 Docket: 07-AFC-9

Revision No. 1 Date March 7, 2008  
 Technical Staff: Marie McLean  
 Technical Senior: Eric Knight

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	6-10-39; Table 6.10-19 <u>02/14/08 Response:</u> <u>SOCIO-2</u>	<del>No</del> <u>Yes</u>	<del>Please provide names of contacts for (1) County of Orange Assessor's Office; and (2) County of Anaheim Planning Department.</del>
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	6.10-39; §6.10-8; 6.10-40; Table 6.10-20	N/A	

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Soils    
 Project Manager:   Che McFarlin  

# DATA ADEQUACY WORKSHEET

Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Richard Latteri    
 Technical Senior:   Paul Marshall  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	Sections 6.4.1 -- 6.4.3	Yes	
Appendix B (g) (15) (A)	A map at a scale of 1:24,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include:	Sections 6.4.1.1.1 -- .4 Figures 6.4-1 & -2	Yes	
Appendix B (g) (15) (A) (i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil;	Section 6.4.1.1 Table 6.4-1	Yes	
Appendix B (g) (15) (A) (ii)	An identification of other physical and chemical characteristics of the soil necessary to allow an evaluation of soil erodibility, permeability, re-vegetation potential, and cycling of pollutants in the soil-vegetation system;	Sections 6.4.1.1.1 -- .4	Yes	
Appendix B (g) (15) (A) (iii)	The location of any proposed fill disposal or fill procurement (borrow) sites; and	Section 6.4.2.2	Yes	
Appendix B (g) (15) (A) (iv)	The location of any contaminated soils that could be disturbed by project construction.	Sections 6.4.1	Yes	
Appendix B (g) (15) (B)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:			

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Soils    
 Project Manager:   Che McFarlin  

## DATA ADEQUACY WORKSHEET

Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Richard Latteri    
 Technical Senior:   Paul Marshall  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (15) (B) (i)	The quantification of accelerated soil loss due to wind and water erosion; and	Section 6.4.2.2 <u>Response: SOILS-1</u>	<u>No</u> <u>Yes</u>	<del>Please provide a quantification of soil loss due to wind and water erosion through the use of the Revised Universal Soil Loss Equation (RUSLE2) and/or other erosion quantification method.</del>
Appendix B (g) (15) (B) (ii)	The effect of power plant emissions on surrounding soil-vegetation systems.	<u>Response: SOILS-2</u>	<u>No</u> <u>Yes</u>	<del>Please provide a discussion of the effects of power plant emissions on the surrounding soil-vegetation systems.</del>
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Table 6.4-2	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 6.4-4	Yes	

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Soils    
 Project Manager:   Che McFarlin  

**DATA ADEQUACY WORKSHEET**  
 Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Richard Latteri    
 Technical Senior:   Paul Marshall  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 6.4-3	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 6.4-4	Yes	



## DATA ADEQUACY WORKSHEET

Revision No. 1 Date March 7, 2008  
 Technical Staff: Shaelyn Strattan  
 Technical Senior: Vacant

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	§§6.11 (p.6.11-3); 6.11.1; 6.11.2.2; 6.11.2.3; 6.11.3; 6.11.4	Yes	
Appendix B (g) (5) (A)	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.	Fig. 6.11-1 <u>Response: TRAFFIC-1</u>	<del>No</del> <u>Yes</u>	<del>Figure provided in the AFC does not provide a legend, identify all major transportation facilities, or reference the applicable transportation elements. Please provide a revised map and legend, with major transportation facilities noted and identified. These should include, but not be limited to, railways, highways, bus/Metrolink stations, and airports. Identify applicable transportation element references.</del>

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Traffic and Transportation    
 Project Manager:   Che McFarlin  

## DATA ADEQUACY WORKSHEET

Project:   Canyon Power Project (CPP)    
 Docket:   

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Shaelyn Strattan    
 Technical Senior:   Vacant  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (B)	If the proposed project including any linear facility is to be located within 20,000 feet of an airport runway that is at least 3,200 feet in actual length, or 5,000 feet of a heliport (or planned or proposed airport runway or an airport runway under construction, that is the subject of a notice or proposal on file with the Federal Aviation Administration), discuss the project's compliance with the applicable sections of the current Federal Aviation Regulation Part 77 – Objects Affecting Navigable Airspace, specifically any potential to obstruct or impede air navigation generated by the project at operation; such as, a thermal plume, a visible water vapor plume, glare, electrical interference, or surface structure height. The discussion should include a map at a scale of 1:24,000 that displays the airport or airstrip runway configuration, the proposed power plant site and related facilities.	§6.11.1.1.5 (p.6.11-8) §6.11.2.2.11 §6.11.5.1.2 Response to DA Req (LU1)	Yes	
Appendix B (g) (5) (C)	An identification, on topographic maps at a scale of 1:24,000, and a description of existing and planned roads, rail lines, (including light rail), bike trails, airports, bus routes serving the project vicinity, pipelines, and canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable:	Fig. 6.11-2 <u>Response: TRAFFIC-2</u>	<del>No</del> <u>Yes</u>	<del>AFC Fig. 6.11-2 provides a topographical map at a 1:24,000 scale, but does not include a legend identifying or differentiating existing from planned transportation elements. In order for staff to evaluate the transportation elements identified in Fig. 6.11-2, please provide topographical maps (including legends) identifying existing and planned transportation-related facilities that may serve or be affected by the project. Roadways identified should include all routes discussed in AFC §6.11.1.1.1 and streets providing access from the major roadways to the project site.</del>

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Traffic and Transportation    
 Project Manager:   Che McFarlin  

**DATA ADEQUACY WORKSHEET**  
 Project:   Canyon Power Project (CPP)    
 Docket:   

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Shaelyn Strattan    
 Technical Senior:   Vacant  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (5) (C) (i)	Road classification and design capacity;	§6.11.1.1 Table 6.11-2 <u>Response: TRAFFIC-3</u>	<del>No</del> <u>Yes</u>	<del>Please provide design capacity for each of the roadways identified in response to Appendix B(g)(5)(C). Identify source or methodology of information provided.</del>
Appendix B (g) (5) (C) (ii)	Current daily average and peak traffic counts;	Table 6.11-3 Appendix L <u>Response: TRAFFIC-4</u>	<del>No</del> <u>Yes</u>	<del>Traffic counts were not provided for all roads, identified in Fig. 6.11-2 or §6.11.1.1.1, that could reasonably be affected by or serve the proposed facility. Please provide daily average and peak traffic counts for each of these roadways.</del>
Appendix B (g) (5) (C) (iii)	Current and projected levels of service before project development, during construction, and during project operation;	Tables 6.11-3, 6.11-4, 6.11-7 thru 6.11-14 Appendix L <u>Response: TRAFFIC-5</u>	<del>No</del> <u>Yes</u>	<del>Current and projected levels of service (LOS) were not provided for all roads, identified in Fig. 6.11-2 or §6.11.1.1.1, that could reasonably be affected by or serve the proposed facility. Please provide LOS for each of these roadways before, during, and after construction.</del>
Appendix B (g) (5) (C) (iv)	Weight and load limitations;	§§6.11.5.2.10, 6.11.5.2.11, 6.11.5.3.3 Table 6.11-15	Yes	
Appendix B (g) (5) (C) (v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	Table 6.11-3 <u>Response: TRAFFIC-6</u>	<del>No</del> <u>Yes</u>	<del>Data were not provided for all roads, identified in Fig. 6.11-2 or §6.11.1.1.1, that could reasonably be affected by or serve the proposed facility. Please provide the estimated passenger vehicle percentage and truck percentage of current traffic flows for each of these roadways.</del>
Appendix B (g) (5) (C) (vi)	An identification of any road features affecting public safety.	§§6.11.1.1.5, 6.11.2.2.10	Yes	

**DATA ADEQUACY WORKSHEET**

Project: Canyon Power Project (CPP)

Docket: \_\_\_\_\_

## DATA ADEQUACY WORKSHEET

## Traffic and Transportation

**DATA ADEQUACY WORKSHEET**

Project: Canyon Power Project (CPP)

Docket: \_\_\_\_\_

## DATA ADEQUACY WORKSHEET

## Traffic and Transportation

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Visual Resources    
 Project Manager:   Che McFarlin  

## DATA ADEQUACY WORKSHEET

Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   James Adams    
 Technical Senior:   Dale Edwards  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (1)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	PP. 6.13-1 through 13-42 Section 6.13-1	Yes	
Appendix B (g) (6) (A)	Descriptions of the existing visual setting of the vicinity of the proposed project site and the proposed routes for any project-related linear facilities. Include:	PP. 6.13-2 through 4 Section 6.13.1.1	Yes	
Appendix B (g) (6) (A) (i)	Topographic maps at a scale of 1:24,000 that depict directions from which the project would be seen, the view areas most sensitive to the potential visual impacts of the project, and the locations where photographs were taken for (g)(6)(C); and	Figure 6.13-1	Yes	
Appendix B (g) (6) (A) (ii)	Description of the existing visual properties of the topography, vegetation, and any modifications to the landscape as a result of human activities, including existing water vapor plumes, above-ground electrical transmission lines, and nighttime lighting levels in the project viewshed.	PP. 6.13-3 & 4 Section 6.13.1.1	Yes	

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Visual Resources    
 Project Manager:   Che McFarlin  

## DATA ADEQUACY WORKSHEET

Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   James Adams    
 Technical Senior:   Dale Edwards  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (B)	An assessment of the visual quality of those areas that would be affected by the proposed project. For projects proposed to be located within the coastal zone, the assessment should also describe how the proposed project would be sited to protect views to and along the ocean and scenic coastal areas, would minimize the alteration of natural land forms, would be visually compatible with the character of surrounding areas.	PP. 6.13-8 through 13-12 Sections 6.13.1.3 & 4	Yes	
Appendix B (g) (6) (C)	In consultation with Energy Commission staff, identify: i) any designated scenic roadways or scenic corridors and any visually sensitive areas that would be affected by the proposed project, including recreational and residential areas; and ii) the locations of the key observation points to represent the most critical viewing locations from which to conduct detailed analyses of the visual impacts of the proposed project. Indicate the approximate number of people using each of these sensitive areas and the estimated number of residences with views of the project. Also identify any major public roadways and trails of local importance that would be visually impacted by the project and indicate the types of travelers (e.g., local residents, recreationists, workers, commuters, etc.) and the approximate number of vehicles, bicyclists, and/or hikers per day.	Pg. 6.13-4 through 13 Section 6.13.1.3 Figure 6.13-1	Yes	

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Visual Resources    
 Project Manager:   Che McFarlin  

**DATA ADEQUACY WORKSHEET**  
 Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   James Adams    
 Technical Senior:   Dale Edwards  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (D)	A table providing the dimensions (height, length, and width, or diameter) and, proposed color(s), materials, finishes, patterns, and other proposed design characteristics of each major component visible from off the project site, including any project-related electrical transmission line and/or offsite aboveground pipelines and metering stations.	Pg. 6.13-2 Section 6.13 Table 6.13-4 Pg. 13-19 Section 6.13-17	Yes	
Appendix B (g) (6) (E)	Provide the cooling tower and heat recovery steam generator (HRSG) exhaust design parameters that affect visible plume formation. For the cooling tower, data shall include heat rejection rate, exhaust temperature, exhaust mass flow rate, liquid to gas mass flow ratio, and, if the tower is plume-abated, moisture content (percent by weight) or plume-abated fogging curve(s). The parameters shall account for a range of ambient conditions (temperature and relative humidity) and proposed operating scenarios, such as duct firing and shutting down individual cells. For the heat recovery steam generator exhausts, data shall include moisture content (percent by weight), exhaust mass flow rate, and exhaust temperature. The parameters must correspond to full-load operating conditions at specified ambient conditions, and shall account for proposed operating scenarios, such as power augmentation (i.e., evaporative coolers, inlet foggers, or steam injection) and duct firing, or proposed HRSG visible plume abatement, such as the use of an economizer bypass. For simple-cycle projects, provide analogous data for the exhaust stack(s).	PP. 6.13-25 & 26 Section 6.13.2.2.5 <u>Response: VIS-1</u>	<del>No</del> <u>Yes</u>	<del>Provide the cooling tower and heat recovery steam generator (HRSG) exhaust design parameters that affect visible plume formation. For the cooling tower, data shall include heat rejection rate, exhaust temperature, exhaust mass flow rate, and fogging curve(s). The parameters shall account for a range of ambient conditions (temperature and relative humidity) and proposed operating scenarios, such as duct firing and shutting down individual cells.</del>



Adequacy Issue: Adequate   X   Inadequate         
 Technical Area: **Visual Resources**  
 Project Manager: Che McFarlin

**DATA ADEQUACY WORKSHEET**  
 Project: Canyon Power Plant  
 Docket: 07-AFC-9

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   James Adams    
 Technical Senior:   Dale Edwards  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (6) (F)	Provide: i) full-page color photographic reproductions of the existing site, and ii) full-page color simulations of the proposed project at life-size scale when the picture is held 10 inches from the viewer's eyes, including any project-related electrical transmission lines, in the existing setting from each key observation point. If any landscaping is proposed to comply with zoning requirements or to mitigate visual impacts, include the landscaping in simulation(s) representing sensitive area views, depicting the landscaping five years after installation; and estimate the expected time until maturity is reached.	Figures 6.13-10 through 15 Landscaping Plan Appendix S <u>Response: VIS-2</u>	<del>No</del> <u>Yes</u>	<del>The simulations are not presented at life-size scale. The purpose behind the use of a life-size (approximately tabloid size) photo is that if an individual extended it to a normal reading range and lined it up with the horizon at the KOP location, the photo simulation will line-up/match the actual physical setting providing a true life view of the proposed power plant. Please provide life-size photos of Figures 6.3-10 through 15.</del>  <del>Include proposed landscaping in the simulation(s) depicting the landscaping five years after installation; and estimate the expected time until maturity is reached.</del>
Appendix B (g) (6) (G)	An assessment of the visual impacts of the project, including light, glare, and any modeling of visible plumes. Include a description of the method and identify any computer model used to assess the impacts. Provide an estimate of the expected frequency and dimensions (height, length, and width) of the visible cooling tower and/or exhaust stack plumes. Provide the supporting assumptions, meteorological data, operating parameters, and calculations used.	PP. 6.13-23 through 25. Sections 6.13.2.2.2, 3 & 5.	Yes	
Appendix B (g) (6) (H)	If any landscaping is proposed to reduce the visual impacts of the project, provide a conceptual landscaping plan at a 1:40 scale (1"=40'). Include information on the type of plant species proposed, their size, quantity, and spacing at planting, expected heights at 5 years and maturity, and expected growth rates.	Appendix S <u>Response: VIS-3</u>	<del>No</del> <u>Yes</u>	<del>Please provide a conceptual landscaping plan at a 1:40 scale (1"=40'). Include information on the type of plant species proposed, their size, quantity, and spacing at planting, expected heights at 5 years and maturity, and expected growth rates.</del>

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Visual Resources    
 Project Manager:   Che McFarlin  

## DATA ADEQUACY WORKSHEET

Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   James Adams    
 Technical Senior:   Dale Edwards  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Table 6.13-7 PP. 6.13-30 through 39 Section 6.13.5 <u>Response: VIS-4</u>	<del>No</del> <u>Yes</u>	<del>The table or matrix shall explicitly reference pages in the application wherein conformance with each law or standard during both construction and operation of the facility is discussed;</del>
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Table 6.13-7 PP. 6.13-30 through 39 Section 6.13.5	Yes	
Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 6.13-8 Pg. 6.13-40 Section 6.13.5.4	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Pg. 6.13-40 Section 6.13.5.5	Yes	

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Water Resources    
 Project Manager:   Che McFarlin  

## DATA ADEQUACY WORKSHEET

Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Richard Latteri    
 Technical Senior:   Paul Marshall  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14)	...provide a discussion of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness of the mitigation.	See Below	—	
Appendix B (g) (14) (A)	All the information required to apply for the following permits, if applicable, including:	—	—	
Appendix B (g) (14) (A) (i)	Waste Discharge Requirements; National Pollutant Discharge Elimination System Permit; and/or a Section 401 Certification or Waiver from the appropriate Regional Water Quality Control Board (RWQCB);	Section 6.5.3.8 -- .10	Yes	
Appendix B (g) (14) (A) (ii)	Construction and Industrial Waste Discharge and/or Industrial Pretreatment permits from wastewater treatment agencies;	Section 6.5.3.8 -- .14 Appendix N	Yes	
Appendix B (g) (14) (A) (iii)	Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and	N/A	—	
Appendix B (g) (14) (A) (iv)	Underground Injection Control Permit(s) from the U.S. Environmental Protection Agency, California Division of Oil and Gas, and RWQCB.	N/A	—	

Adequacy Issue: Adequate   X   Inadequate         
 Technical Area:   Water Resources    
 Project Manager:   Che McFarlin  

## DATA ADEQUACY WORKSHEET

Project:   Canyon Power Plant    
 Docket:   07-AFC-9  

Revision No.   1   Date   March 7, 2008    
 Technical Staff:   Richard Latteri    
 Technical Senior:   Paul Marshall  

SITING REGULATIONS	INFORMATION	AFC PAGE NUMBER AND SECTION NUMBER	ADEQUATE YES OR NO	INFORMATION REQUIRED TO MAKE AFC CONFORM WITH REGULATIONS
Appendix B (g) (14) (B)	A detailed description of the hydrologic setting of the project. The information shall include a narrative discussion and on maps at a scale of 1:24,000 (or appropriate scale approved by staff), describing the chemical and physical characteristics of the following nearby water bodies that may be affected by the proposed project:	See Below	—	
Appendix B (g) (14) (B) (i)	Ground water bodies and related geologic structures;	Section 6.5.1.6	Yes	
Appendix B (g) (14) (B) (ii)	Surface water bodies;	Section 6.5.1.4	Yes	
Appendix B (g) (14) (B) (iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones;	Sections 6.3.1.6.3 & .4 Figure 6.3-4	Yes	
Appendix B (g) (14) (B) (iv)	Flood control facilities (existing and proposed); and	Section 6.3.1.6.3 Figure 6.3-4	Yes	
Appendix B (g) (14) (B) (v)	Groundwater wells within ½ mile if the project will include pumping.	N/A	—	
Appendix B (g) (14) (C)	A description of the water to be used and discharged by the project. This information shall include:	See Below	—	
Appendix B (g) (14) (C) (i)	Source(s) of the primary and back-up water supplies and the rationale for their selection;	Section 3.4.7.1.2 Sections 6.5.3.1 & .2	Yes	

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Appendix B (g) (14) (C) (ii)	The expected physical and chemical characteristics of the source and discharge water(s) including identification of both organic and inorganic constituents before and after any project-related treatment. For source waters with seasonal variation, provide seasonal ranges of the expected physical and chemical characteristics. Provide copies of background material used to create this description (e.g., laboratory analysis);	Sections 3.4.7.2 & .5 Tables 3.4-5 & -6 Sections 6.5.2.3, .5 & .11 Tables 6.5-4 & -5	Yes	
Appendix B (g) (14) (C) (iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project;	Section 3.4.7 Table 3.4-4 Section 6.5.2 Table 6.5-3 <u>Response: WATER-1</u>	<del>No</del> <u>Yes</u>	<del>Please provide the volume and source of construction water.</del>
Appendix B (g) (14) (C) (iv)	A detailed description of all facilities to be used in water conveyance (from primary source to the power plant site), water treatment, and wastewater discharge. Include a water mass balance diagram;	Table 6.5.3.1 – 3.14 Figure 3.6	Yes	
Appendix B (g) (14) (C) (v)	For all water supplies intended for industrial uses to be provided from public or private water purveyors, a letter of intent or will-serve letter indicating that the purveyor is willing to serve the project, has adequate supplies available for the life of the project, and any conditions or restrictions under which water will be provided. In the event that a will-serve letter or letter of intent can not be provided, identify the most likely water purveyor and discuss the necessary assurances from the water purveyor to serve the project;	Section 6.5.3.24 Appendix O	Yes	

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Appendix B (g) (14) (C) (vi)	For all water supplied which necessitates transfers and/or exchanges at any point, identify all parties and contracts/agreements involved, the primary source for the transfer and/or exchange water (e.g., surface water, groundwater), and provide the status of all appropriate agencies' approvals for the proposed use, environmental impact analysis on the specific transfers and/or exchanges required to obtain the proposed supplies, a copy of any agency regulations that govern the use of the water, and an explanation of how the project complies with the agency regulation(s);	N/A	—	
Appendix B (g) (14) (C) (vii)	Provide water mass balance and heat balance diagrams for both average and maximum flows that include all process and/or ancillary water supplies and wastewater streams. Highlight any water conservation measures on the diagram and the amount that they reduce water demand; and	Section 3.4.7.1.1 Figure 3.6	Yes	

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Appendix B (g) (14) (C) (viii)	<p>For all projects which have a discharge, provide a copy of the will-serve letter, permit or contract with the public or private entity that will be accepting the wastewater and contact storm water from the project. The letter, permit or contract, if possible, shall identify the discharge volumes and the chemical or physical characteristics under which the wastewater and contact storm water will be accepted.</p> <p>In the event that a will-serve letter, permit, or contract cannot be provided, identify the most likely wastewater/storm water entity and discuss why the applicant was unable to secure the necessary assurances to serve the project's wastewater/storm water needs. Also, discuss the term of the wastewater service to the project, whether the wastewater entity has adequate permit capacity for the volume of wastewater from the project and has adequate permit levels for the chemical/physical characteristics of the project's wastewater and storm water for the life of the project, and any issues or conditions/restrictions the wastewater entity may impose on the project.</p>	Sections 6.5.3.8 & .9 Appendix O	Yes	
Appendix B (g) (14) (D)	Identify all project elements associated with stormwater drainage, including a description of the following:	See Below	—	
Appendix B (g) (14) (D) (i)	Monthly and/or seasonal precipitation and stormwater runoff and drainage patterns for the proposed site and surrounding area that may be affected by the project's construction and operation;	Sections 6.5.1.3 & 1.4	Yes	

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Appendix B (g) (14) (D) (ii)	Drainage facilities and the design criteria used for the plant site and ancillary facilities, including but not limited to capacity of designed system, design storm, and estimated runoff;	Section 6.5.1.14 Figure 3-9 Appendix K	Yes	
Appendix B (g) (14) (D) (iii)	All assumptions and calculations used to calculate runoff and to estimate changes in flow rates between pre- and post construction; and	Section 6.5.1.14 Appendix K	Yes	
Appendix B (g) (14) (D) (iv)	A copy of applicable regional and local requirements regulating the drainage systems, and a discussion of how the project's drainage design complies with these requirements.	Section 6.5.3.14 <u>Response: WATER-2</u>	<del>No</del> <u>Yes</u>	<del>Please provide a copy of the City of Anaheim's Municipal Code, Title 10 Public Service and Utilities, Chapter 10.09.180 and the requirements for the completion of a Water Quality Management Plan.</del>
Appendix B (g) (14) (E)	An impacts analysis of the proposed project on water resources and a discussion of conformance with water-related LORS and policy. This discussion shall include:	See Below	—	
Appendix B (g) (14) (E) (i)	The effects of project demand on the water supply and other users of this source, including, but not limited to, water availability for other uses during construction or after the power plant begins operation, consistency of the water use with applicable RWQCB basin plans or other applicable resource management plans, and any changes in the physical or chemical conditions of existing water supplies as a result of water use by the power plant;	Section 6.5.4 Sections 6.5.7.1 -- 7.3	Yes	



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Appendix B (g) (14) (E) (ii)	If the project will pump groundwater, an estimation of aquifer drawdown based on a computer modeling study shall be conducted by a professional geologist and include the estimated drawdown on neighboring wells within 0.5 mile of the proposed well(s), any effects on the migration of groundwater contaminants, and the likelihood of any changes in existing physical or chemical conditions of groundwater resources shall be provided;	N/A	—	
Appendix B (g) (14) (iii)	The effects of construction activities and plant operation on water quality and to what extent these effects could be mitigated by best management practices;	Section 6.5.3.14 Appendices K & N	Yes	
Appendix B (g) (14) (iv)	If not using a zero liquid discharge project design for cooling and process waters, include the effects of the proposed wastewater disposal method on receiving waters, the feasibility of using pre-treatment techniques to reduce impacts, and beneficial uses of the receiving waters. Include an explanation why the zero liquid discharge process is “environmentally undesirable,” or “economically unsound;”	Sections 6.5.1.4, .2.10 & .4	Yes	
Appendix B (g) (14) (v)	If using fresh water, include a discussion of the cumulative impacts, alternative water supply sources and alternative cooling technologies considered as part of the project design. Include an explanation of why alternative water supplies and alternative cooling are “environmentally undesirable,” or “economically unsound;”	N/A	—	

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Appendix B (g) (14) (vi)	The effects of the project on the 100-year flood plain, flooding potential of adjacent lands or water bodies, or other water inundation zones; and	Sections 6.3.1.6.3 & .4 Figure 6.3-4	Yes	
Appendix B (g) (14) (vii)	All assumptions, evidence, references, and calculations used in the analysis to assess these effects.	Sections 6.3.1.6.3 & .4 Figure 6.3-4	Yes	
Appendix B (i) (1) (A)	Tables which identify laws, regulations, ordinances, standards, adopted local, regional, state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Table 6.5-12	Yes	
Appendix B (i) (1) (B)	Tables which identify each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Tables 6.5-12 & 6.5-13	Yes	

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Appendix B (i) (2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Table 6.5-13	Yes	
Appendix B (i) (3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits.	Table 6.5-12	Yes	